(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 27 January 2005 (27.01.2005)

PCT

(10) International Publication Number WO 2005/007270 A1

(51) International Patent Classification⁷: B01D 37/04

(21) International Application Number:

PCT/US2004/018644

(22) International Filing Date: 12 June 2004 (12.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/478,791 16 June 2003 (16.06.2003) US

(71) Applicant and

(72) Inventor: BENESI, Steve, C. [US/US]; 611 Mc Clay Road, Noyato, CA 94947 (US).

(74) Agent: WASSON, George, W.; 3123 Indian Way, Lafayette, CA 94549 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

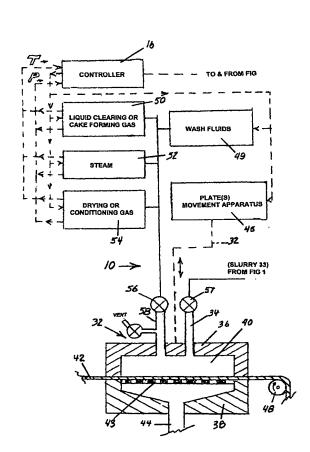
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: SLURRY FILTRATION SYSTEM AND APPARATUS



(57) Abstract: A slurry filtration system and apparatus with peripheral elements for conditioning a slurry prior to entry into a pressure filter (32) and the control of fluid and liquid introductions into the filter (32) to produce a desired filter cake or filtrate. The system includes a controller (16) for controlling the operation of the peripheral treatment for the introduction of coagulants, flocculants and polymers to treat or condition a slurry introduced into the filter (32) and the control of additional peripheral equipment for treatment of the slurry with liquid clearing or cake forming gas, steam, or drying or conditioning gas within the filter chamber (40) for the production of both filtrate and filter cake from the filter (32) to a form desired.

WO 2005/007270 A1

WO 2005/007270 A1



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.